

NASA Goddard Space Flight Center

Licensing NASA Technologies and Partnership Agreements

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Technology Transfer Program

Code 504







- * Protect industry's investment to commercialize the NASA technology
- Impact to licensee & U.S. economy
 - Create jobs
 - Competitive advantage
 - Financial success
- Furthers NASA's commercialization activities
- Provides incentive for inventor to participate in technology transfer



Maximize Benefit of Taxpayer-Funded Technology



Licensee Qualification Requirements

- * 37 C.F.R. Part 404
 - Licensing of government owned inventions
 - Establishes terms, conditions, and procedures
- Licensed and registered to conduct business in the United States
- Substantial manufacturing in the United States



availability for licensing

Review license applications, which include commercialization plans



Publish notice in the Federal Register (exclusive & partially exclusive applicant(s) only)

Selection/Denial of license application(s)

Negotiate/Execute license agreement with selected applicant(s)



Identifying Technology & Patenting

- Technology/Market Assessment positive
 - Accurate analysis of nonlinear, nonstationary signals
 - Gives more precise data analysis results than Fourier-based methods
 - When used as a filter, provides sharper analysis than Fourierbased filters
- Proven: Has been used to analyze underwater acoustic signals
- * Patents: Nov. 1999, No. 5,983,162

Oct. 2001, No. 6,311,130

Apr. 2002, No. 6,381,559

- Operational at Goddard
- Technical Papers written









- Publications
 - Tech Briefs
 - Technical papers
- Tradeshows and Conferences
 - General Discussions
 - NASA Advanced Medical Technology Summit Feb. 2003
 - Technology Opportunity Announcement and other literature
- Workshop & Briefings
 - Provides equal dissemination of information
 - In-depth discussions
 - Opportunity to talk to the inventor & to "see" the technology







- NASA Exceptional Space Act Award, 1998
- Federal Government Technology Leadership Award 1999
- In 2000 Dr. Huang was elected to the National Academy of Engineering for his patented invention of the Hilbert-Huang Transformation (HHT) Method.
- R& D 100 Magazine Award 2001
- * Federal Laboratory Consortium (FLC) Award 2001



License Application Requirements

- Commercialization Plan (Marketing & Development)
- Proposed fee and royalty rates
 - Upfront fee
 - Minimum and running royalty rates
- Term of license
- * Type of license (Field of Use)
 - Non-exclusive
 - Exclusive or partially exclusive
 - Geographic area(s) of manufacturing and sales
 - Requires 15-day notice in the Federal Register
- Application submission deadline TBD





License Application Selection Process

- Evaluate license applications
 - Based on 37 C.F.R. Part 404
 - Selection Criteria
 - Technical factors
 - Business factors
 - Managerial factors
 - Economic impact
- Initiate discussions
- Select commercialization partners
- Commence negotiations









- Schedule and Milestones
 - Monitor licensee's developmental efforts based on the submitted commercialization plan
- Examples of milestones
 - Commercial prototype completion date
 - Test Marketing of product
 - "Practical Application" 37 C.F.R. 404.3



- Keep good accounting records
- Periodic reports & meetings (yearly)



Space Act Agreements



- Space Act of 1958, as amended, gives authority to enter into such Agreements
- Government Funds its part
- Industry funds its part



- Must benefit the Government
- Invention and data rights are negotiable
- SAA's may be non-reimbursable or reimbursable



Software Usage Agreements

- NASA
- * For use of evaluation with intention to license
- For use R&D (government & universities)
- * Term is for a limited time
- Code is returned at the end of time period





Cooperative Agreements



- Space Act of 1958, as amended, gives authority to enter into such agreements
- Does not authorize the buying of goods or services.
- Typically a cost sharing agreement
- Must benefit the government
- Data clauses fully negotiable
- Invention rights are not negotiable government has rights to invention
 - Small business: governed by FAR 52.2777-11 and NASA
 FAR Supplement 18-52.277-11
 - Large Entity: governed by New Technology Clause 18-52.277-70 of NASA FAR Supplement 18-52.277-11